

Sixth Grade: Activity 19 Practice

(pg. 243-244)

Lesson 19-1

1. 500 traps per hour

2. 288; $1,200 \times 8 = 9,600$,

$$\frac{3}{100} = \frac{x}{9,600}, x = 288$$

3. 150 frames;

$$\frac{1,200 \text{ frames}}{8 \text{ seconds}} = \frac{x}{1 \text{ second}}$$

$$8x = 1,200$$

$$x = 150$$

4. C

5. A

6. C

7. $\frac{2}{3}$ cup

Lesson 19-2

8. XYZ Toys: \$13.99 per rocket; AAA

Science Supply: \$14.99 per rocket

9. C

10. $\frac{\$12.50}{4 \text{ feet}} = \frac{c}{24 \text{ feet}}$ Cross multiply

$$4c = 12.50(24) \text{ Simplify.}$$

$$4c = 300 \text{ Divide.}$$

$$c = 75$$

11. A; $\frac{1 \text{ ft}}{32 \text{ ft}} = \frac{x \text{ ft}}{205 \text{ ft}}, 32x = 205$,
 $x = 6.4 \text{ ft}$

Lesson 19-3

12. B

13. 7.14 minutes per mile, or 0.14 miles per minute

14. D

15. a. 5.3 meters per second

b. It is slower. 10 meters in 2.32 seconds is about 4.3 meters per second, while 8 meters per 1.5 seconds is about 5.3 meters per second. $4.3 < 5.3$

16. 26.7 miles per hour

17. 5.42 hr;

$$\frac{360 \text{ mi}}{6.5 \text{ hr}} = \frac{300 \text{ mi}}{x \text{ hr}}$$

$$360x = 6.5(300)$$

$$360x = 1,950$$

$$x \approx 5.42$$

18. The trip will take 35.8 hours.

19. The racers were traveling at a rate of 104 laps per hour.

20. No., $\frac{138 \text{ mi}}{2 \text{ hr}} = \frac{x \text{ mi}}{1 \text{ hr}}, 2x = 138$,
 $x = 69$ miles per hour. He did not follow the posted speed limit of 65 miles per hour.